

Greenbelt Dam and Greenbelt Lake

OWNER

Greenbelt Municipal and Industrial Water Authority 62.84 percent.
Texas Water Development Board 37.16 percent.

ENGINEER

Freese, Nichols and Endress.

LOCATION

On Salt Fork Red River in Donley County, 5 miles north of Clarendon.

DRAINAGE AREA

547 square miles, of which 191 square miles is probably noncontributing.

DAM

Type	Earthfill
Length	5,800 ft
Height	110 ft
Top width	20 ft

SPILLWAY (emergency)

Type	Uncontrolled
Crest elevation	2,674.0 ft above msl
Length at bottom	1,450 ft (side slopes 2.8 percent and 1.39 percent to highway grade)

SPILLWAY (service)

Type	Drop inlet, 26 ft 8.5 inches diameter
Crest elevation	2,664.0 ft above msl
Control	None
Discharge conduit	Concrete conduit, 7 by 7 ft

OUTLET WORKS

Type	1 conduit, 36-inch diameter
Invert elevation	2,597.0 ft above msl
Control	2 valves, each 20 inches, control discharge to stilling basin and water treatment plant

STATE AUTHORIZATION

Permit No. 1917B (Application No. 2094B), November 6, 1964, provides for relocation of dam and for 2 reservoirs; one with a capacity of 59,800 acre-feet, the second (Lelia Lake) with a capacity of 20,200 acre-feet.
Authorized annual water use from both projects:

Municipal	14,500 acre-feet
Industrial	1,500 acre-feet
Mining	1,000 acre-feet

RESERVOIR DATA (Based on U.S. Geological Survey data October 8, 1967)

FEATURE	ELEVATION (FEET ABOVE MSL)	CAPACITY (ACRE-FEET)	AREA (ACRES)
Top of dam	2,686.0	—	—
Emergency spillway crest	2,674.0	81,760	2,470
Service spillway crest (owner)	2,664.0	60,400	2,025
Service spillway crest (U.S. Geological Survey)	2,663.6	59,110	1,990
Low flow outlet	2,590.0	900	—
Streambed	2,576	—	—

GENERAL

Construction started	April 12, 1966
Dam completed	March 12, 1968
Impoundment of water began	December 5, 1966
General contractor	Adams Construction Co.
Estimated cost (dam only)	\$1,800,000

